



syngenta

**PPP Technology transfer project
on Corn production
Nam Phuong Tien agriculture service
cooperative model**

Classification: PUBLIC

PPP Project on Technology transfer : Develop demo field on switching low income rice to corn

Project information

- Based on Government project : Development of demo field on switching low income rice to corn to increase value added in agriculture production, CETDA under VAAS in cooperation with Syngenta to develop a corn agronomy technical package, build up demo field, transfer and apply the agronomic package creating a production model in switching low income rice to corn production and extend corn production in winter crops.
- Project timeline: 2015-2016
- Syngenta contribution : \$120K (in cash, in goods and in kinds)

Project target

- Transfer and apply agronomic package in corn production on 1 season rain fed water rice crop and water shortage highland in mountainous provinces.
- Agronomic package for corn production in winter crops in Red river delta.
- Farmer income to increase 20%. Reaches & trained 10,000 small holders thru demo farm, learning center and farmer training.
- Develop a cooperative model supplying farming services including land preparation, seedling, transplanting to farmers.

Achievement Winter crop 2015 – Summer crop 2016



20 ha demo field on winter corn crop
Increase farmer income 20% Eq 5 mio VND /ha



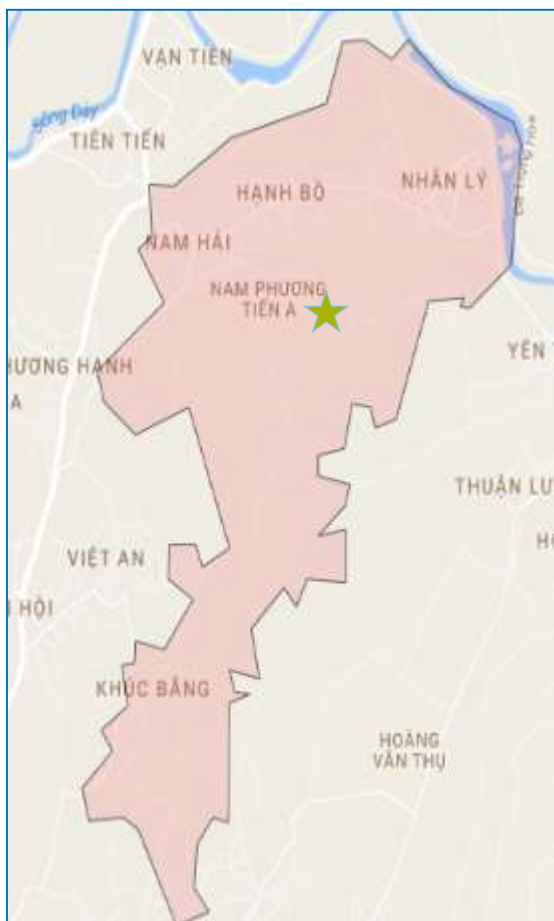
10 ha demo field switching low income rice to corn
Increase farmer income 20-30% Eq 5-7 mio VND/ha



1 Agriculture service cooperative model
Providing service to farmers on
land preparation, seedling and transplanting
Increase farmer income 2 mio VND/ha



Nam Phuong Tien Agricultural production index



**Corn is
key crop
planted in
winter
season**

- Agriculture production area: 720ha/year
- Winter crop area: 246ha
- Corn planted in winter crop: 95ha

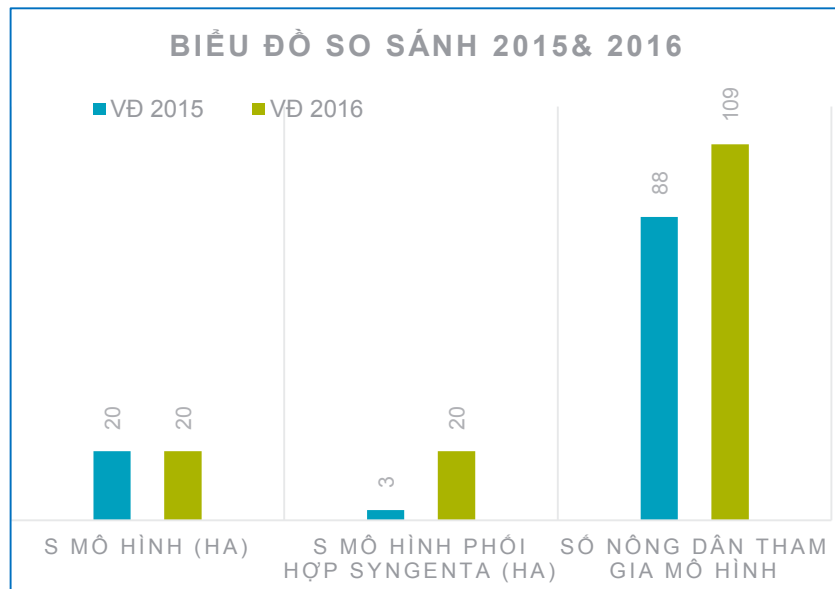
**Challenges
in winter
corn crop
production**

- Low yield productivity
- Lacking of high yield corn seed resistance to unfavorable weather condition
- Backward production, high labor cost low efficiency.
- Corn planted area decrease since 2012-2014, field being left blank

Cooperative model providing service in corn production

PPP
between
CETDA
Syngenta
Cooperative
Farmers

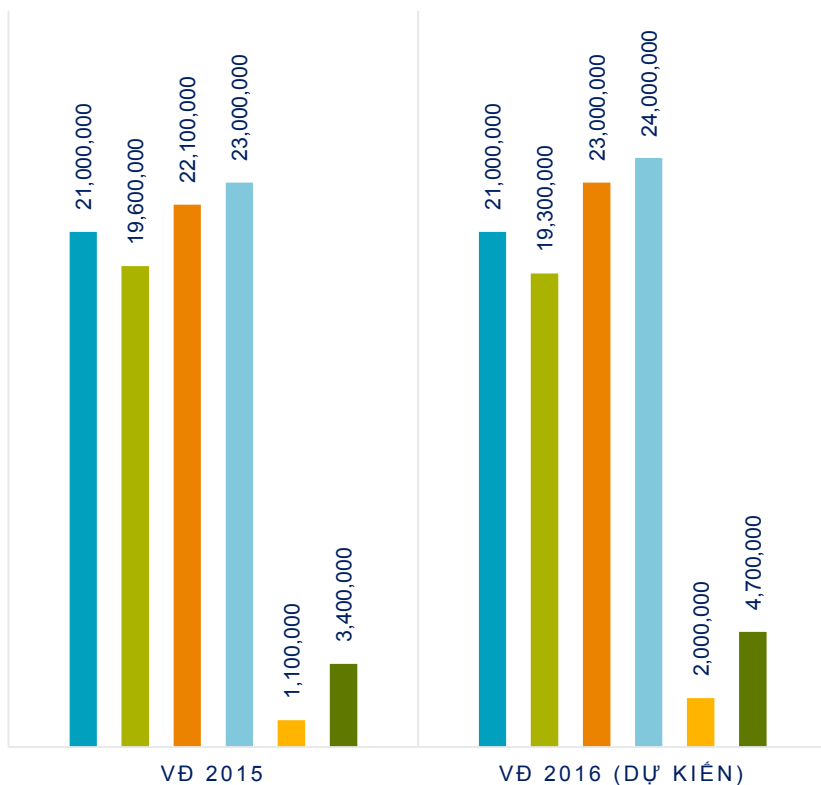
- Organize farmers build up the model
- CETDAE to train, transfer technology in minimum tillage and seedling production to cooperative. Cooperative provide service in land preparation, seedling and transplanted on the field
- Syngenta to train the farmers in GM cultivation technology including weed, pest management
- Support farmer joining the model with seed, fertilizer and pesticide.
- SYN + CETDAE and cooperative manage the model and train the farmer to apply the technical package



Achievements

RESULT BASE ON 1HA

- Investment as farmer practice
- Investment as per Syn & CETDA solution
- Return on investment from farmer practice
- Return on investment from Syn & CETDA solution
- Benefit from farmer practice
- Benefit from Syn & CETDA solution



Benefits from cooperative model applying technical package of SYN + CETDAE :

- Reduce labor and investment cost
- Reduce pressure from seasonal cropping thanks to seedling and minimum tillage technology.
- Provide suitable seed to farmers
- No corn borer attack, effective and convenient weed management
- Better grain quality, higher yield and productivity

Good model of agriculture service cooperative providing effective service to farmers supporting higher return on investment, increasing benefit